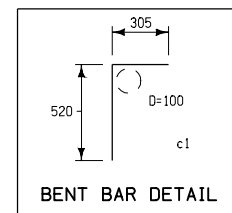
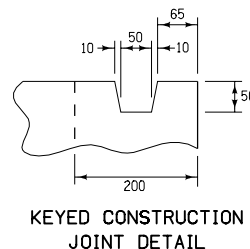


Placing sequence: 1. Base; 2. Walls; 3. Top; 4. Insert

REINFORCING BAR LIST							
BAR	SIZE	LOCATION	SHAPE	NO.	LENGTH	MASS	SPACING
a1	15	Base	—	5	1500	12 kg	350
a2	15	Base	—	5	1500	12 kg	350
b1	15	Wall	—	5	915	7 kg	350
c1	15	Top	┐	5	825	7 kg	350
c2	15	Top	—	3	1500	7 kg	See Detail
c3	15	Top	—	6	1500	14 kg	See Detail
c4	15	Top	—	6	1000	10 kg	See Detail
Total						69 kg	



GENERAL NOTES:

This detail illustrates the construction and installation of a curb intake for use with storm sewer located under the pavement.

All reinforcing bars shall be ASTM A 615M, Grade 400.

Precast concrete units with these dimensions may be utilized. The Contractor shall be responsible for any additional reinforcement necessary to prevent cracking during transportation and installation.

Dimensions shown hereon are for the construction of a 150 millimeter Standard Curb as a part of the pavement. Modifications may be made to conform to other curb shapes and intake designs when necessary, subject to the approval of the Engineer.

If unit is cast in place, storm sewer pipe shall be installed before intake sidewall construction is started. Sidewalls shall be constructed as indicated with openings for storm sewer pipe(s) smoothly shaped and inlet pipe(s) not projecting unnecessarily into well. Outlet pipe(s) shall not project beyond inside face of sidewall. Storm sewer pipe locations shown hereon are typical. Refer to detail project plans for exact locations.

A concrete fillet shall be placed in the bottom of the intake approximately as indicated. Special shaping of this fillet is required to provide a smooth channel through the intake. Top surface of the fillet shall slope at a rate of approximately 12:1 (Horizontal: Vertical) toward the channel.

Insert area shall be included with the quantities for either concrete pavement or curb and gutter (only when curb and gutter is being added to existing pavement). Special shaping of insert area shall be included with price bid for intake. Concrete for insert area may be either 'Intake' or 'Pavement'. Finish of the insert area shall be the same as for pavement. Finish of the intake top or any exposed portion shall be as required for "Structural Concrete" in current Standard Specifications.

Joints in pavement adjacent to intake shall be as shown on Standard Road Plans RH-50, RH-51, and RH-52. Joint locations shall be as indicated hereon except where specifically modified by other plan drawings or by the Engineer.

Price bid for "Intake RA-41" shall include:

- All necessary excavation and backfill.
- Satisfactory connection to new or existing storm sewer as per detail plans. Connections to precast units shall be grouted.
- Furnishing all materials and constructing insert as detailed.
- Furnishing all materials and constructing intake as detailed.

All dimensions given in millimeters unless noted.

M	Iowa Department of Transportation	
	Highway Division	
	STANDARD ROAD PLAN	RA-41
	REVISION: Require Concrete Fillet, Corrected Minimum Length.	REVISION NO. 3
	APPROVED BY DESIGN METHOD ENGINEER <i>William J. Sten</i>	REVISION DATE 04-15-03
METRIC VERSION	INTAKE (CURB)	